

Flight Scientist Report  
Monday 06/13/2022 ACTIVATE RF174

Flight Type: Statistical Survey Flight  
Flight Route:

Special Notes: There is still African dust in region, but we chose to fly directly east to get into a cleaner area with less dust to get more of a "cleaner" marine signature as this helps with the special filter sample we are obtaining to do special forms of single-particle microscopy analysis.

### **King Air**

Pilot report (Coldsnow):

Sortie flown as briefed - takeoff 30 min before Falcon and join up over BDA above 20K (TXKF BORN WAUHO WENAN BDA YEPSY 3152N05850W YEPSY 3215N06500W 321654N0651522W TXKF). Flight was flown due regard at FL275. Winds were light (10-15 knots) out of the south. Three dropsondes were released and all were nominal. One dropsonde was omitted at the midpoint as per direction over chat. Timing remained within 10 minutes the entire flight.

Flight scientist report (Seaman):

Ops Notes: Nominal.

Instrument notes: Load sheds/research power button replaced prior day, no issues, seems to have solved load sheds problem.

Science notes: Clear air focus of this flight. A plume was observed, likely from a cruise ship (or some large traveling vessel in the water) that was observed minutes later in the nadir camera. Time/location were noted in the HSRL2 data notes.

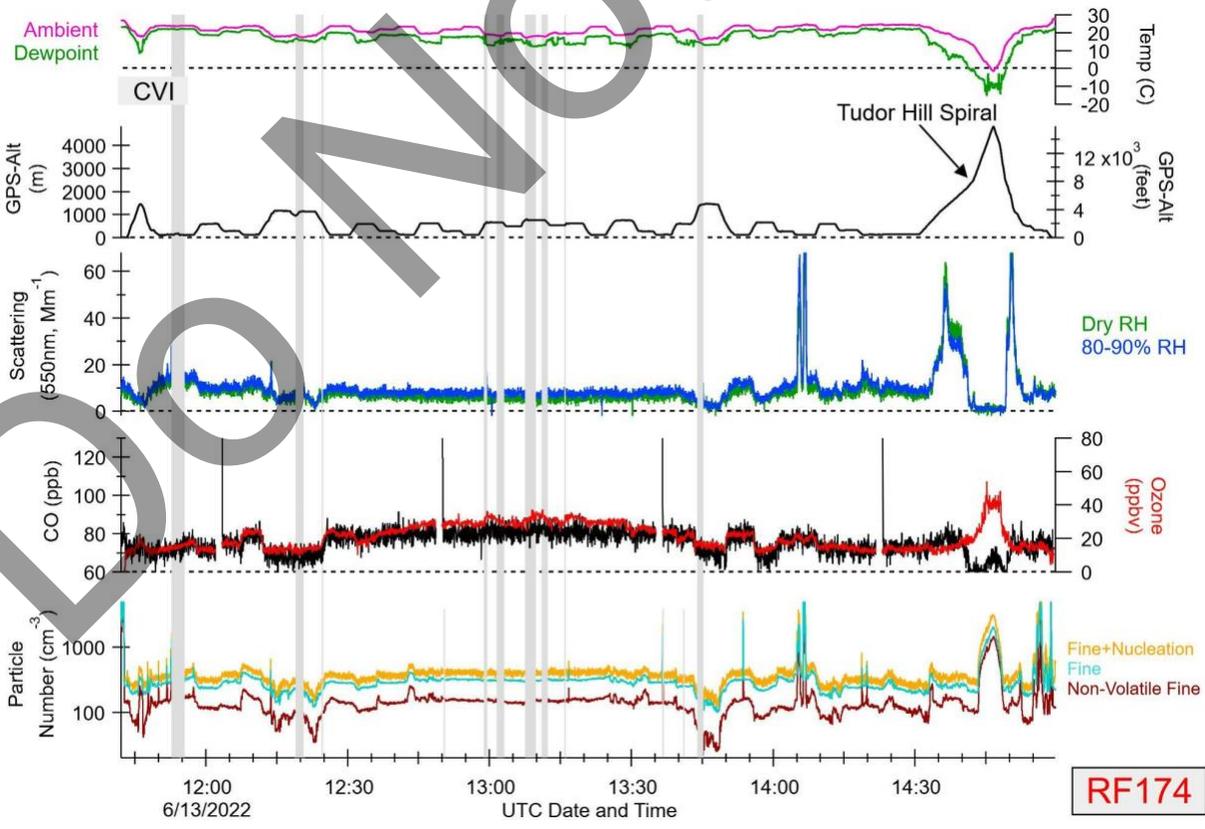
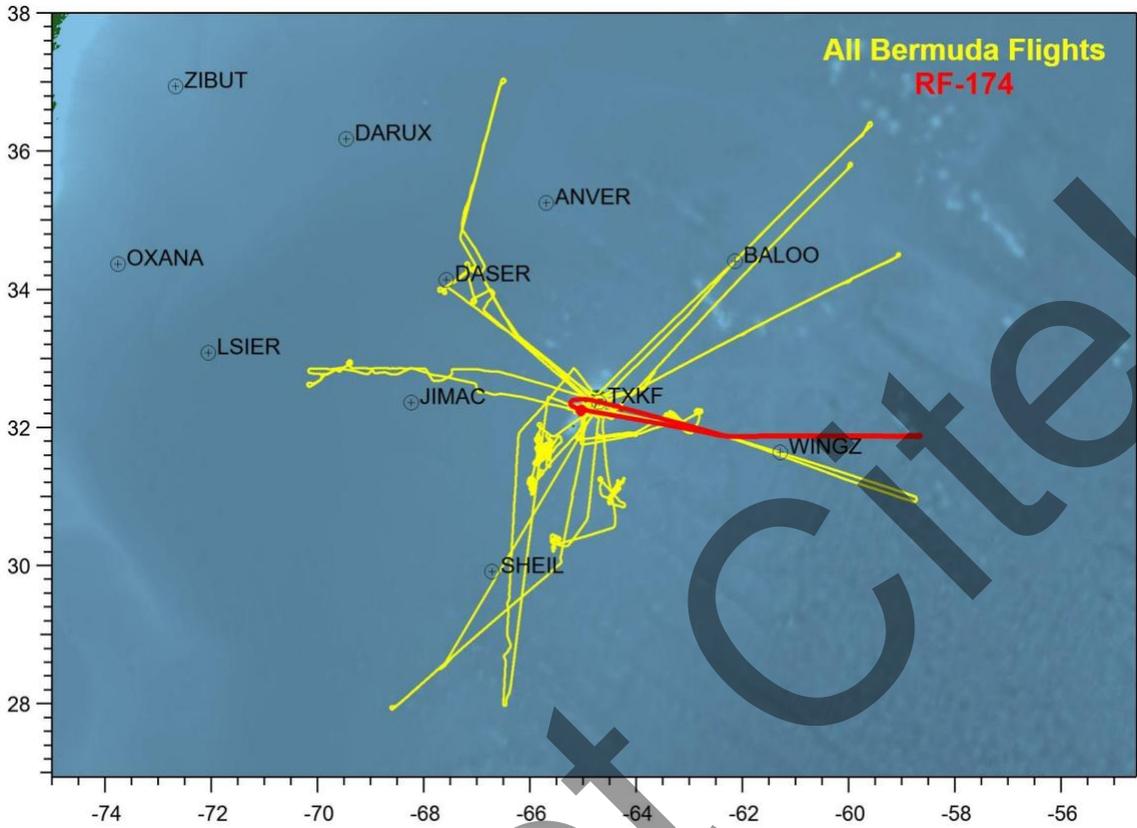
Sonde drops: 3 sondes dropped.

### **Falcon**

Pilot report (Baxley):

ACTIVATE HU-25 flight coordinated with UC-12; Baxley/Elder, Crosbie/Winstead TXKF - YEPSY - 3152N/05850W - YEPSY - 3215N/06500W - TXKF Flight deviated from plan as requested by the research team, no anomalies noted.

Flight scientist report ():

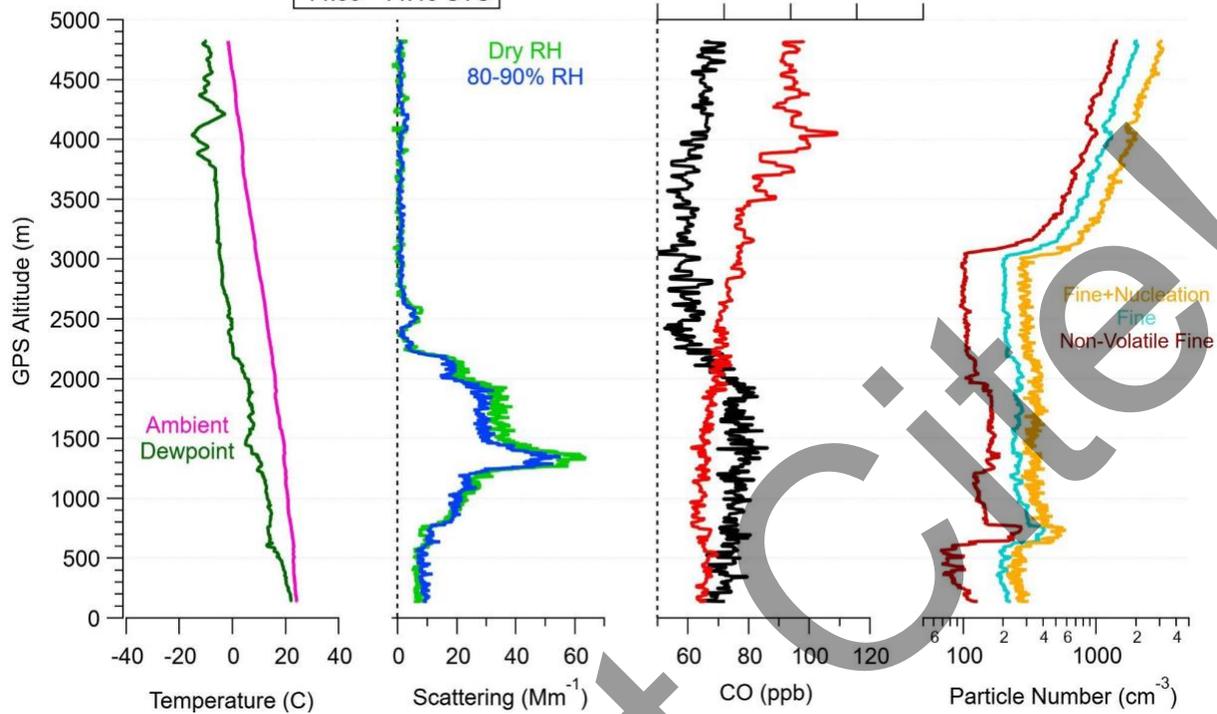


Tudor Hill Spiral

6/13/2022  
14:30 - 14:46 UTC

Ozone (ppbv)  
0 20 40 60 80

RF174

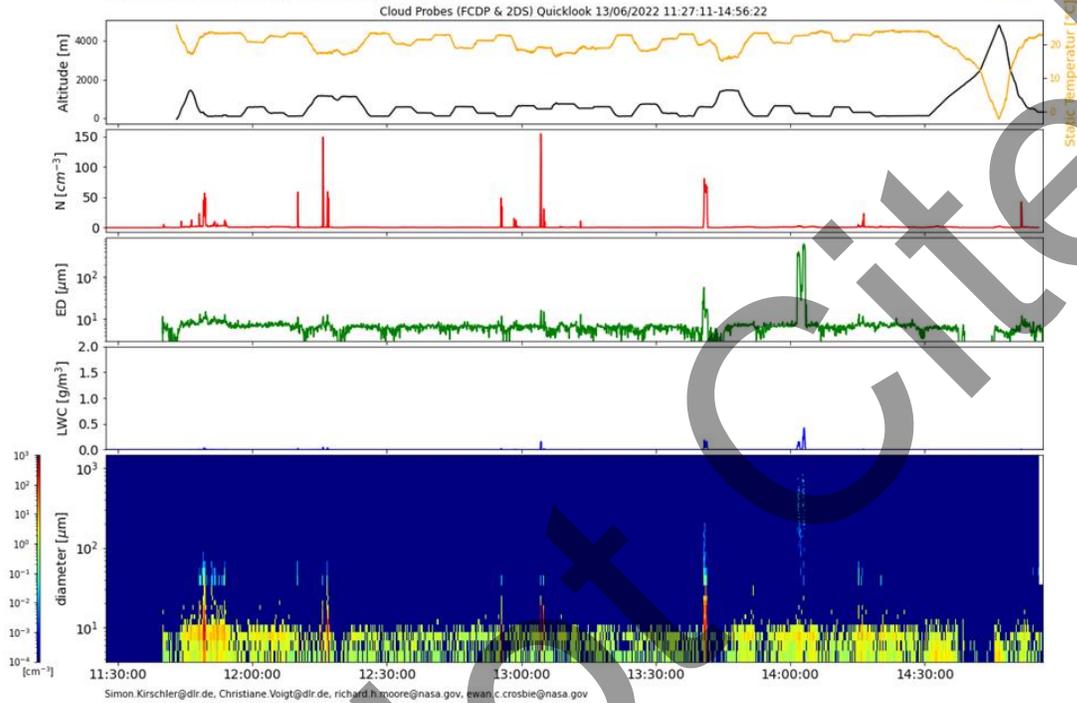


Do Not

# Quicklook ACTIVATE Cloud Probes (FCDP & 2DS) Quicklook

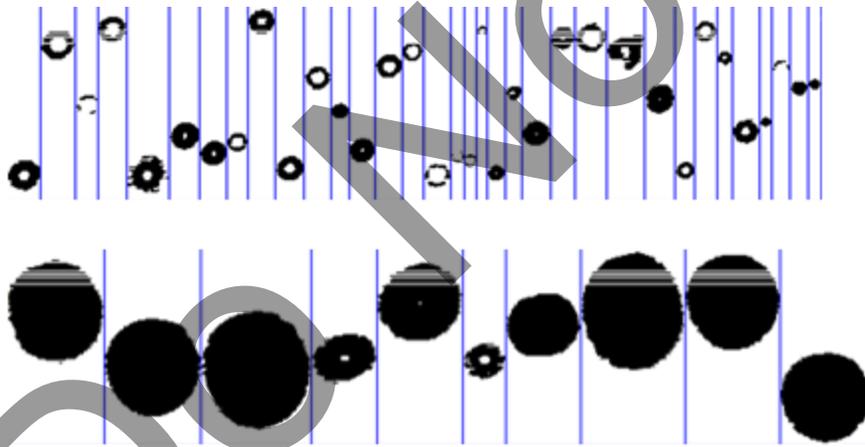
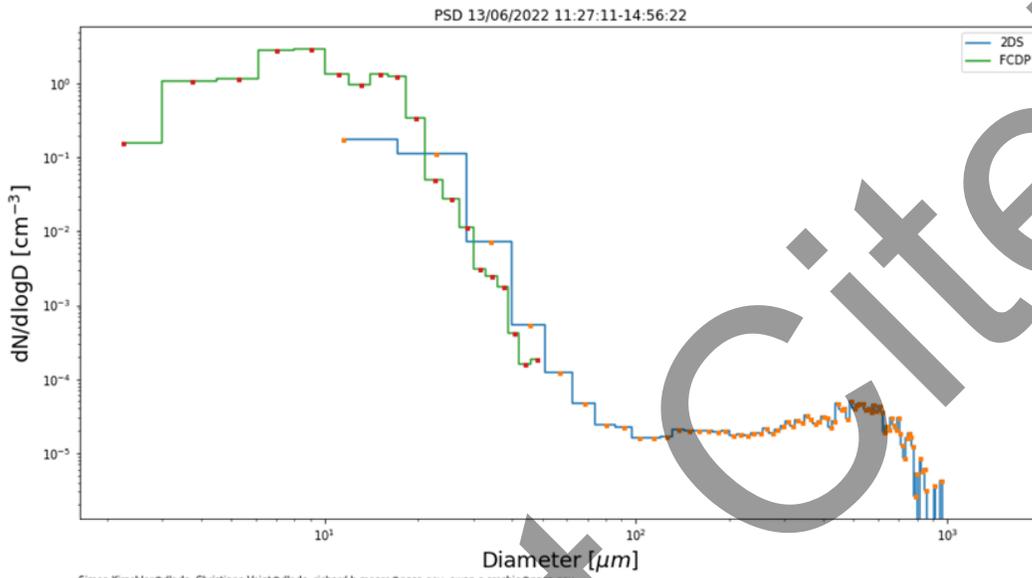
preliminary data, only for quicklook use

Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie



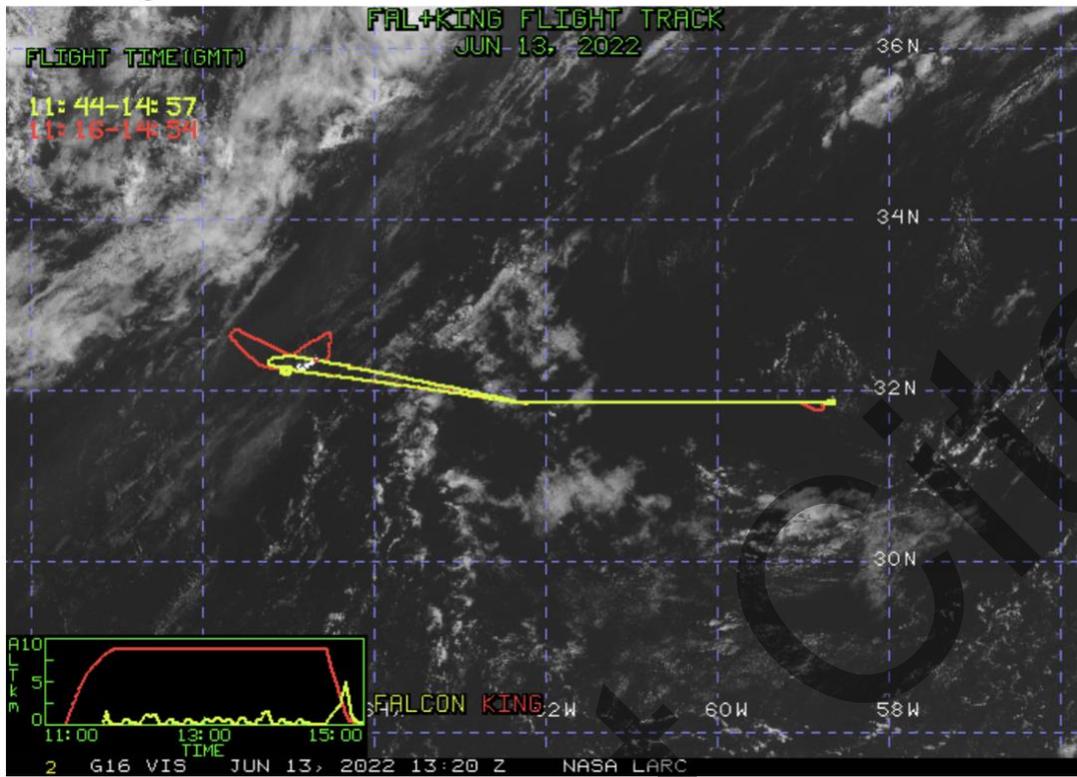
# PSD ACTIVATE

preliminary data, only for quicklook use  
Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie

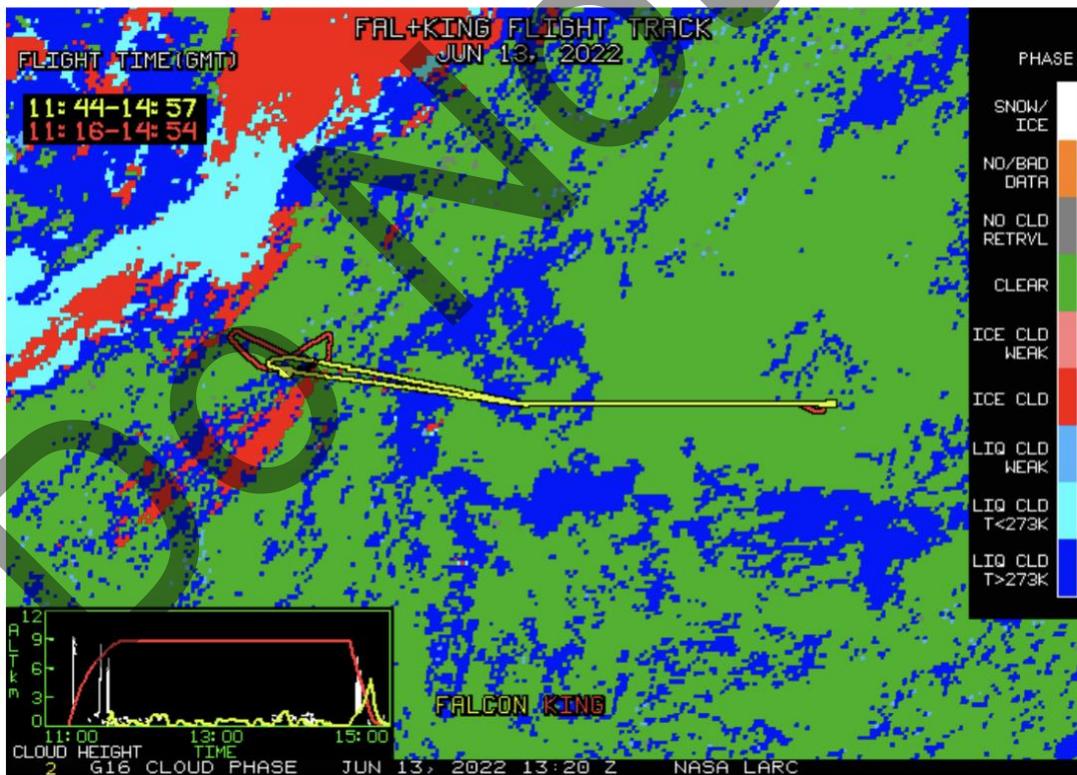


Only pure liquid clouds with Precip.

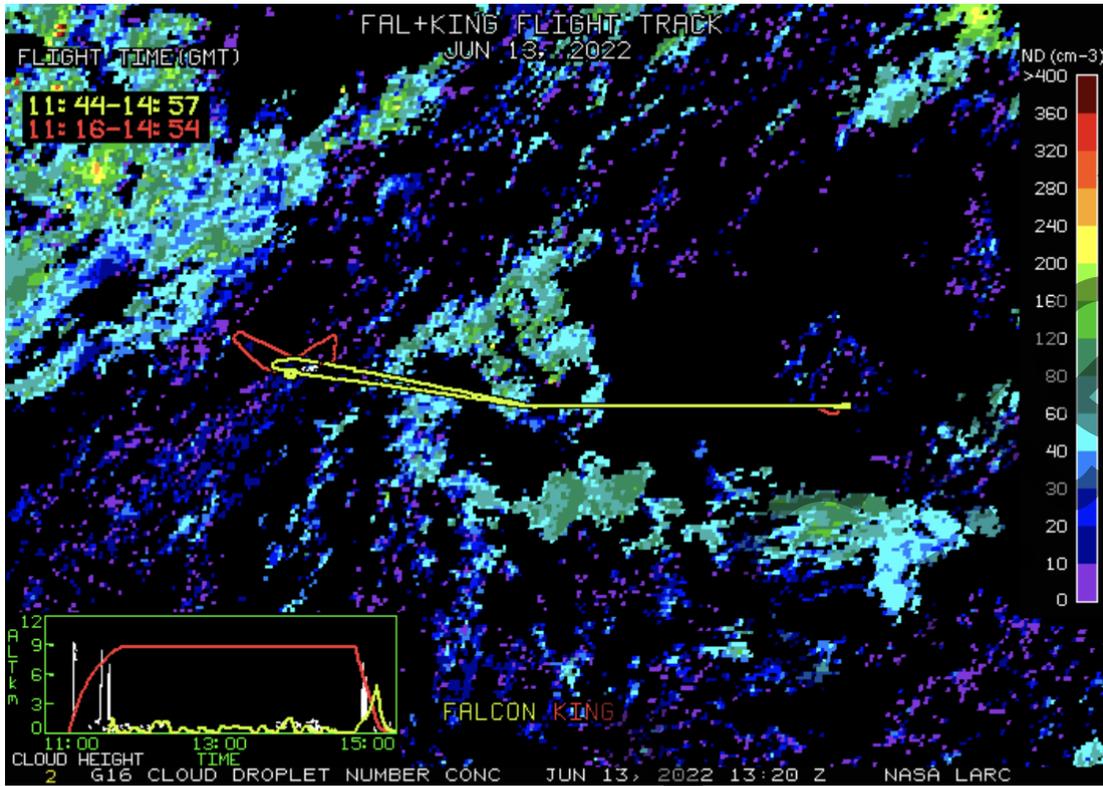
Visible Image



Cloud Phase



Cloud Droplet Number Concentration (cm-3)



Cloud-Top Height (Kft-ASL)

